

Stateful PCE to Request & Obtain control of an LSP

<draft-raghu-pce-lsp-control-request-02>

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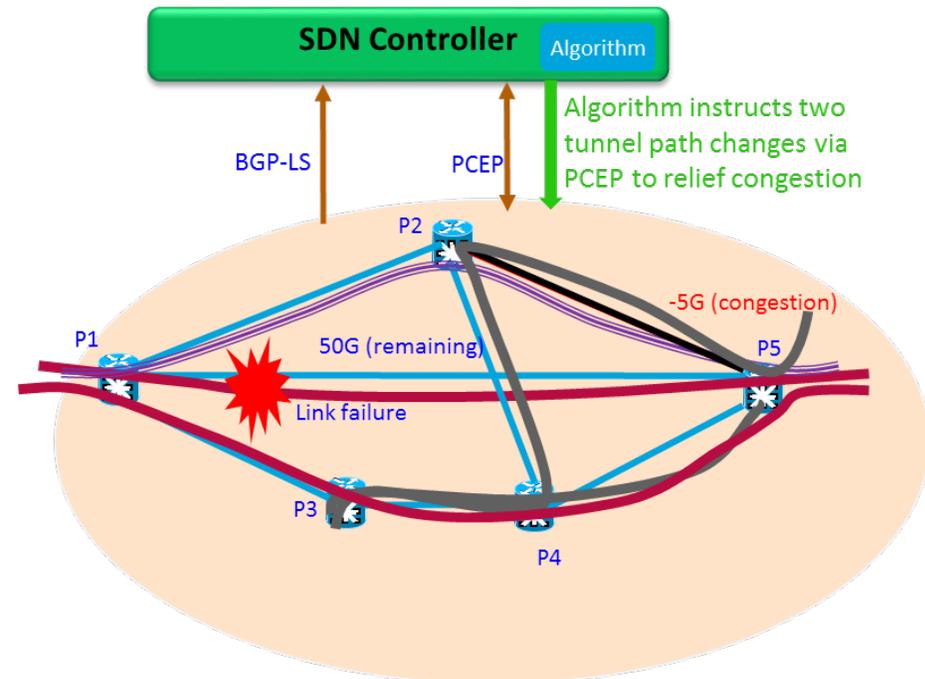
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Rationale for proposing this change (Use Cases)

- The Need for PCE to have control of the LSP for 'Global Optimization'
- Virtual PCE and load balancing for scalability
- Stateful PCE to request control of one or more LSPs during PCE-failure(s)

Global optimization of LSP(s)

- Operators would like to use Stateful PCE for global optimization.
- Global optimization scenarios require PCE to request control of an LSP for optimization and return control back to PCC once done.

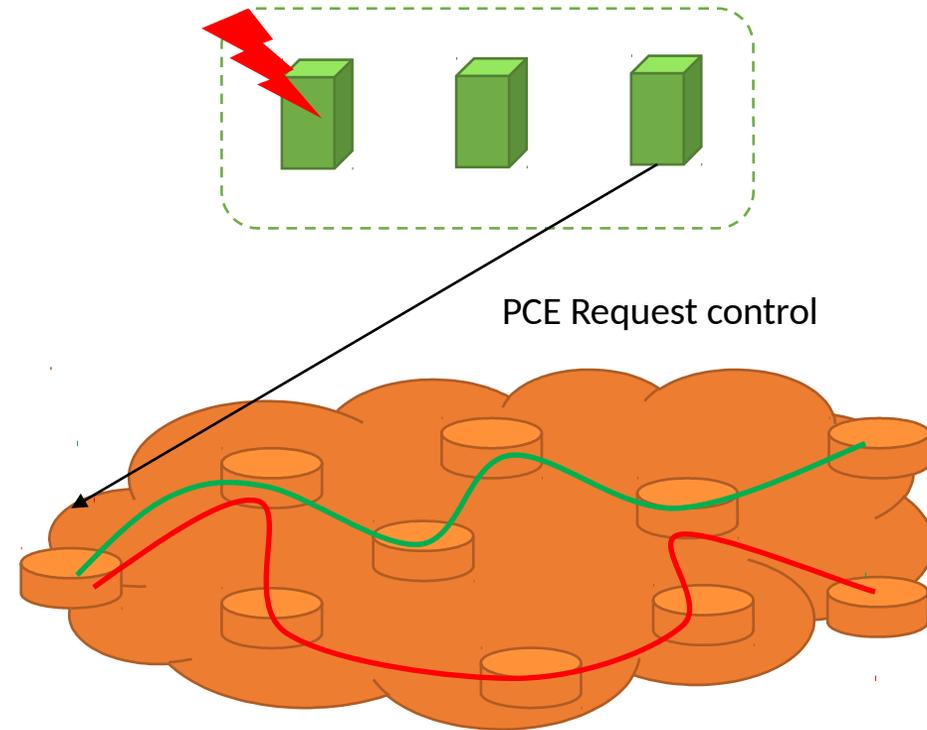


PCE load balancing and Failure

Redundant Stateful PCE – On primary PCE failure, it is up to the PCC to re-delegate to a standby PCE.

But in some cases it may be desirable for “a Stateful PCE to request control of one or more LSPs from a PCC”

PCEs among themselves could have a suitable algorithm to decide which PCE takes control



Also applicable when vPCE (virtual PCE) as VNFs would load balance the LSPs among themselves for scalability

Next Step

- Any comments or questions ?
- Candidate for WG adoption?

Thank You!